

## ABSTRACT

Disclosed herein is an apparatus and method for transmitting a differential signal through a ternary transmission line. The differential signal transmitting apparatus includes a signal transmitting unit, a signal receiving unit, and first to third transmission lines to transmit data information between the signal transmitting and receiving units. The signal receiving unit includes first to third matching units placed between the ends of the first and second transmission lines, between the ends of the second and third transmission lines, and between the ends of the first and third transmission lines, respectively. Each of the first to third matching units has an impedance matching with the impedance of each of the first to third transmission lines.